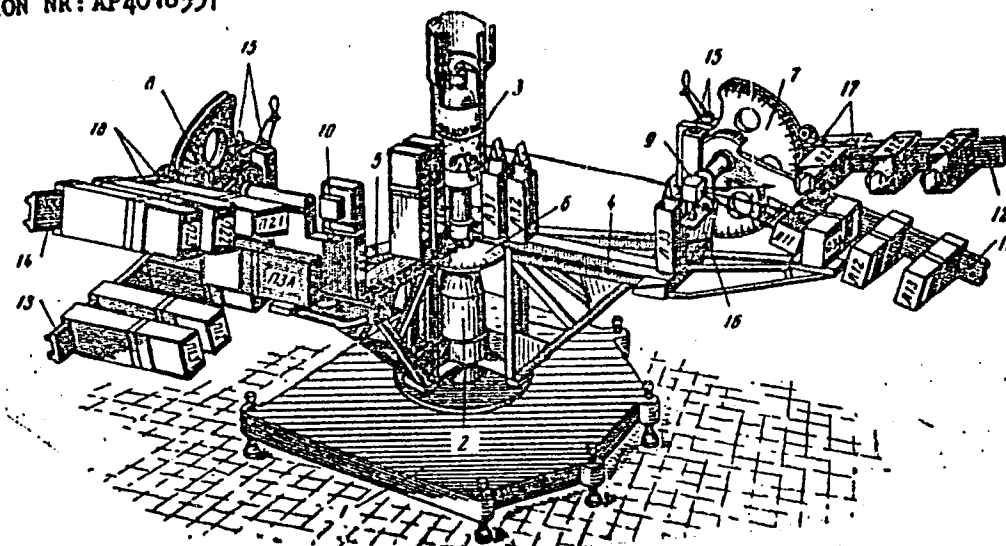


ACCESSION NR: AP4018357

ENCLOSURE: 01



Outfit for polarization studies with high-energy-proton scattering

Card 6/141

ACCESSION NR: AP4012522

S/0056/64/046/001/0050/0058

AUTHORS: Kumeikin, Yu. P.; Meshcheryakov, M. G.; Nurushev, S. B.;
Stoletov, G. D.

TITLE: Triple scattering of protons at 660 MeV. IV. Angular dependence of the parameter A.

SOURCE: Zhurnal eksper. i teoret. fiz., v. 46, no. 1, 1964, 50-58

TOPIC TAGS: pp interaction, proton triple scattering, triple scattering parameter, angular dependence, phase shift analysis, pp scattering matrix

ABSTRACT: Continuing their investigations of pp interactions near 660 MeV (ZhETF v. 35, 1398, 1958; v. 38, 1451, 1960; v. 43, 1667, 1962), the authors describe the apparatus used in further experiments on proton triple scattering and report the measurements of the triple-scattering parameter A (characterizing the transverse po-

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ACCESSION NR: AP4012522

larization component arising upon scattering of a longitudinally polarized beam) for c.m.s. angles 54, 72, 90, 108, and 126°. The data obtained are used in conjunction with results of other experiments to reconstruct the pp scattering matrix and for comparison with the results of several phase-shift analysis variants. "The authors are grateful to L. S. Azhgirey and S. N. Sokolov for useful discussions." Orig. art. has: 4 figures, 11 formulas, and 3 tables.

ASSOCIATION: Ob'yedinenny*y institut yaderny*kh issledovaniy
(Joint Institute of Nuclear Research)

SUBMITTED: 10Jul63

DATE ACQ: 26Feb64

ENCL: 02

SUB CODE: PH

NO REF SOV: 020

OTHER: 008

Card 2/4

ACCESSION NR: AP4025940

S/0056/64/046/003/1074/1078

AUTHOR: Azhgirey, L. S.; Klepikov, N. P.; Kumekin, Yu. P.; Meshcheryakov, M. G.; Nurushev, S. B.; Stoletov, G. D.

TITLE: Further refinement of pp scattering phase shifts at 657 MeV

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 1074-1078

TOPIC TAGS: pp scattering, scattering phase shift, triple scattering parameter, mixing parameter, absorption parameter, phase shift real part, unique phase shift set, statistical reliability

ABSTRACT: In view of additional information recently obtained by various investigators, the results of a phase shift analysis of pp scattering at 657 MeV are refined by taking into account new data on the angular dependence of the triple-scattering parameter A. These experimental data are found to be represented with statistical reliability by a set of the real parts of the phase shifts, the mixing parameters, and the averaged absorption parameters. Arguments are presented which indicate that the obtained phase shift set is unique, particularly in view

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ACCESSION NR: AP4025940

of the smooth transition between the solution and the corresponding curves for energies below 345 MeV. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Ob"yedinenny*y institut yaderny*kh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 30Aug63

DATE ACQ: 16Apr64

ENCL: 01

SUB CODE: PH

NR REF SOV: 006

OTHER: 003

Card

2/3

L 26682-66 EWT(m)/T

ACC NR: AF601.6698

SOURCE CODE: UR/0367/65/002/005/0892/0896

AUTHOR: Azhgirey, L. S.--Azgirey, L. S.; Kumekin, Yu. P.--Kumekin, Ju. P.;
Meshcheryakov, M. G.--Mescheryakov, M. G.; Stoletov, G. D.; Nurushev, S. G.;
Solov'yanov, V. L.--Solovyyanov, V. L.

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B

ORG: Joint Institute for Nuclear Research (Ob'yedinenyy institut yadernykh issledo-

vanii)
 TITLE: Measurement of polarization in pp-scattering with 667 mev

SOURCE: Yadernaya fizika, v. 2, no. 5, 1965, 892-896¹⁹

TOPIC TAGS: proton scattering, proton polarization

ABSTRACT: The polarization in pp-scattering in the interval $4.4^\circ \leq \theta \leq 48.2^\circ$ is found from an experiment on double scattering of protons by protons; for large angles, by means of renormalization of the measurements with 635 mev. An increase in polarization in pp-scattering appeared with an increase in energy from 602 to 656 mev. Analysis of the angular dependence of the polarization showed that with 667 mev a significant contribution to the polarization is made by the triplet states with angular momentum up to and including $l = 5$. The set of phase shifts is described by the values of polarization obtained with other experimental data in the vicinity of 660 mev. Orig. art. has: 2 figures and 1 table. [JPRS]

SUB CODE: 20 / SUBM DATE: 02Jul65 / ORIG REF: 004 / OTH REF: 005

SOV REF: 004

Cord 1/1 BKG

2

KARTASHOV, G.; GLAZKOV, V.; KUMEKOV, I.

Our suggestions. Prof.-tekh. obr. 17 no.7:17-18 JI '60.
(MIRA 13:8)

1. Direktor uchilishcha mekhanizatsii sel'skogo khozyaystva No.1 (Stalingradskaya oblast'). 2. Zamestitel' direktora po uchebno-proisvodstvennoy rabote (for Glazkov). 3. Zaveduyushchiy pedagogicheskim kabinetom (for Kumekov).
(Farm mechanization--Study and teaching)

ZUPANCIC, B.G.; KUMELJ, B.

Synthesis of phenylmercury acetate. Vest Slov kem dr 8
no.3/4:31-34 JI-D '61.

1. Kemijski institut "Borisa Kidrica," Ljubljana [formerly
Raziskovalni laboratorij tovarne "Lek" v Ljubljani].

ZUPANCIC, Boris, dr inz.; KUMELJ, Boza, inz.

Synthesis of ethyl mercury chloride. Kem ind 12 no.8:567-574
'63.

1. Kem. institut "Boris Kidric", Ljubljana.

GASI, Alenka; KOZAMETNIK, Marija; KUMELK, Marko

Identification of Mycobacterium bovis. Results of 3-year study.
Tuberkuloza 16 no.5:403-408 S-D '64

1. Institut za tuberkulozu, Golnik (Direktor: doc. dr. Bajan
Fortic).

KUMEL'SKIY, Leonid Emmanuilovich

[Work incentives] Stimuly truda. Moskva, Sovetskaya
Rossiya, 1962. 78 p. (MIRA 17:7)

S/069/63/014/001/004/013
B102/B186

AUTHORS: Meshcheryakov, M. G., Kumenkin, Yu. P., Nurushev, S. B.,
Stoletov, G. D.

TITLE: The longitudinally polarized proton beam of the six-meter
synchrocyclotron

PERIODICAL: Atomnaya energiya, v. 14, no. 1, 1963, 38-40

TEXT: The program for a full investigation of the pp scattering at the
Ob'yedinenny institut yadernykh issledovaniy (Joint Institute of
Nuclear Research) included also experiments with longitudinally
polarized proton beams. The experimental arrangement was suggested by
S. B. Nurushev (Preprint OIYaI P-278, 1959) and is described here in
detail. On account of the proton spin precession the longitudinally

polarized component is obtained at the angle $\lambda = \frac{\mu_p - 1}{\sqrt{1 - \beta^2}} \psi$. The precession
is due to the anomalous magnetic moment of the proton. The longitudinal
component of the polarization resulting from this is $P_{\text{long}} = P_1 \sin \lambda$ where

Card 1/2

The longitudinally polarized ...

S/089/63/014/001/004/013
B102/B186

P_1 is the polarization of protons elastically scattered from carbon nuclei, μ_p is the proton magnetic moment in terms of nuclear magnetons, β is the proton velocity in c-units, and ψ is the angle of deflection of the proton beam in the magnetic field. For $\chi = 90^\circ$ only the longitudinal component exists. By a suitable choice of ψ , ($\psi = 30^\circ$ for proton primary energy of 660 Mev) it is possible to have the whole beam longitudinally polarized. A flux of $2 \cdot 10^6$ p/cm² sec could be attained for an energy $E_{\text{long}} = 612 \pm 9$ Mev. The angle of precession under these conditions is $\chi = 89 \pm 2.5^\circ$. The value $P_1 = 0.43 \pm 0.03$ agrees well with the data published in Zh. eksperm. i teor.fiz., 44, no.1, 1963. There is 1 figure.

SUBMITTED: October 16, 1962

Card 2/2

KUMER, F.

Yugoslavia (430)

Technology

New English technical processes in the leather
industry. p. 236, Nova Proizvodnja, Vol. 2,
no. 2/4, August 1951.

East European Accessions List Library of Congress,
Vol. 2, No. 3, March 1953. UNCLASSIFIED

KUMER, F.

Yugoslavia (430)

Technology

Sole leather tanning with vegetable tannins. p. 330,
Nova Proizvodnja, Vol. 2 no. 5, October 1951

East European Accessions List, Library of Congress,
Vol. 2, No. 3, March 1953. UNCLASSIFIED

KUMER, F

A leather dealer tours Brazil. P. 357

NOVA PROIZVODNJA, Ljubljana, Vol. 6, No. 5/6, Dec. 1955

SO: EFAL, Vol/ 5, No. 7, July 1956

KUMER, Marjan, inz. (Oberhausen Rhld, Weilerstrasse 109, Zahodna Nemcija);
ECIMOVIC, Ljubo, dipl. inz. (Oberhausen)

Coal hardness and its importance for the projecting of aggregates
with dust heaping. Stroj vest 8 no.4/5:99-101 0 '62.

ANDREYEV, Yu.; KUMEROV, I.; DUBROVSKIY, Yu.N., red.; FURMAN, G.V., tekhn.
red.

[Under the heel of the dollar; figures and facts on the condition
of workers in the U.S.A. and dependent countries] Pod piatol
dollara; tsifry i fakty o polozenii trudiashchikhsia v SShA i
zavisimyykh stranakh. Moskva, Ob-vo po rasprostraneniu polit. i
nauchn. znaniy RSFSR, 1958. 47 p. (MIRA 11:9)

(United States—Labor and laboring classes)
(Economic history)

KUMESKIY, V.R.; POPOV, I.P. (g.Usman', Lipetskoy oblasti)

Motion pictures in physics classes. Fiz.v shkole 20 no.1:61-62
Ja-F '60. (MIRA 14:10)

1. Nezhinskiy pedagogicheskiy institut (for Muskiy).
(Motion pictures in education) (Physics---Study and teaching)

KUMETS, A.

Activities of a collective farm. Rab. 1 sial. 31 no.10:10-11 0'55.
(MLRA 8:12)

1. Starshynya kalgasa imya Varashylava Lyubchanskaga rayena
(White Ruasia--Collective farms)

UMAROVA, T.; KAL'CHENKO, A.; KUMIN, Ye.

News from schools. Prof.-tekh.obr. 19 no.3:32 Mr '62.

(MIFA 15:4)

1. Direktor Khodzhentskogo kovrovo-tkatskogo professional'no-
tekhnicheskogo uchilishcha No.21 imeni Titova, Tadzhikskaya SSR
(for Umarova).

(Vocational education)

GLISZCZYNSKI, Franciszek, mgr; KUMINEK, Edward, dr

Distribution and structure of the apartment building industry
in the Warsaw region in 1959. Inst bud mieszk prace 12 no.35:
3-59 '62.

KUMINOV, A.

Po Altaiu/[Through the Altai]. Novosibirsk, Novosibirskoe obl. izd-vo, 1952

SO: Monthly List of Russian Accessions, Vol. 6 No. 7 October 1953

KUMINOV, G.I.

KUMINOV, G.I. (Shadrinsk).

Industrial problems in geometry curriculum. Mat. v shkole no.1:92-93
Ja-P '58. (MIRA 11:1)

(Geometry--Problems, exercises, etc.)

LYUDMILOV, D.S. (Vinnitsa); CHAYKOVSKIY, V.D. (Berdiansk); KUMINOV, G.I. (Shadrinsk)

Problems with practical contents. Mat. v shkole no. 6:90 H-D '59
(Mathematics--Problems, exercises, etc.) (MIRA 13:3)

KUMINOV, P.

What facts and figures show. Fin.SSSR. 20 no.11:54-57
N '59. (MIRA 12:12)

1. Upravlyayushchiy Nizhne-Tagil'skim otdeleniyem Stroybanka.
(Nizhniy Tagil--Banks and banking)
(Construction industry--Finance)

MASYUK, V. I., KUMINOV, V. S.

Work of the permanent production council at a heat and electric
power plant. Energetik 8 no.4:35-36 Ap '60. (MIRA 13:8)
(Omsk--Electric power plants)

KUMINOV, Ye.P.

Everbearing raspberries. Agrobiologiya no.5:148-149 S-O '56.
(MLRA 9:11)

1. Minusinskoye plodovo-yagodnoye opytnoye pole.
(Krasnodar Territory--Raspberries)

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 18, 1958, 32529

Author : Kuminov, Ye.^{P.} Zaytseva, M.

Inst :

Title : Wild Growing Berry Fields of Tuva

Orig Pub : S. kh. Sibir, 1957, No 12, 95-98

Abstract : Maturity Fruit and Berry Experiment Field revealed wild growing mountain ash, hawthorn, elder, dog rose, the raspberr (Rubus saxatilis), blueberry, bilberry, cranberry, cultivated strawberry, the wild strawberry (Fragaria vesca), gooseberry of different forms resistant to Sphaerotheca, black current with large berries, red currant, raspberry (Rubus idaeus) and the common seabackthorn. A number of forms of wild growing berry fields is of interest for introduction in cultivation.

Card 1/1

- 141 -

KUMINOV, Ye.P.

Controlled conditioning of black currant hybrids. Agrobiologiya
no.4:500-504 J1-Ag '61. (MIRA 14:7)

1. Minusinskaya optnaya stantsiya sadovodstva i bakhchevodstva,
(Currants)

1. KUMINOVA, A. V. AND VANDAKUROVA, YE. V.
2. USSR (600)
4. Geology and Geography
7. Steppes of Siberia, A. V. Kuminova and Ye. V. Vandakurova. (New Siberian Regional Press, 1949). Reviewed by M. I. Pomus, Sov. Kniga, No 3, 1951.
9. ~~TOP SECRET~~ Report U-3081, 16 Jan 1953, Unclassified.

KUMINOVA, A.V.

Natural grasslands of the Gorno-Altai Autonomous Province. Trudy
Biol. inst. Zap.-Sib. fil. AN SSSR no.2:9-69 '56. (MIRA 13:10)
(Gorno-Altai Autonomous Province--Pastures and meadows)

KUMINOVA, A.V.

Correct utilization and improvement of meadows and pastures in the
Gorno-Altai Autonomous Province. Trudy Biol. inst. Zap.-Sib. fil.
AN SSSR no.2:135-159 '56. (MIRA 13:10)
(Gorno-Altai Autonomous Province--Pastures and meadows)

KUMINOVA, A.V.

Alpine vegetation of the Yolgo Range (northern Altai). Trudy Biol.
inst. Zap.-Sib. fil. AN SSSR no.2:237-257 '56. (MIRA 13:10)
(Yolgo Range--Alpine flora)

KUMINOVA, A.V.

Natural microzones of Ust'-Kam District. Trudy Biol. inst. Zap.-Sib.
fil. AN SSSR no.2:335-361 '56. (MIRA 13:10)
(Ust'-Kam District—Forage plants)

KUMINOVA, A.V.

Pastures of Ust'-Kan District in the Gorno-Altai Autonomous District.
Trudy Biol. inst. Zap.-Sib. fil. AN SSSR no.2:389-397 '56. (MIRA 13:10)
(Ust'-Kan District--Pastures and meadows)

USSR / Meadow Cultivation.

L

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24749

Author : Kuminova, A. V.

Inst : Tomsk University

Title : The Vegetative Cover of Mountainous Altay
as a Natural Fodder Base for Animal
Husbandry

Orig Pub : Tr. Tomskogo un-ta, 1957, 141, 30-35

Abstract : The species composition of basic formations
of the steppe, meadow and forest vegetation
is examined. The areas, used for hay
harvests and pastures are indicated. The
task was done by the Geobotany Laboratory
and the Altay Expedition of the Western
Siberian Affiliate of the AS USSR.

Card 1/1

KUMINOVA, A. V., Dr. Bio Sci -- (diss) "The plant cover of Yalta,"
Novosibirsk-Leningrad, 1959, 32 pp, 200 cop. (Botanical Institute im
V. I. Komarov, AS USSR) (KL, 45-60, 123)

KUMINOVA, Aleksandra Vladimirovna; REVERDATTO, V.V., prof., doktor biolog. nauk, zaslužennyy deyatel' nauki RSFSR, otv.red.; ALEKSANDROVSKIY, B.M., red.; MAZUROVA, A.F., tekhn.red.

[Vegetation of the Altai] Rastitel'nyi pokrov Altaia. Otv.red. V.V.Reverdatto. Novosibirsk, Izd-vo Sibirskogo otd-nia Akad.nauk SSSR, 1960. 449 p. [List of species occurring in specific sections of associations] Spisok vidov po konkretnym uchastkam assotsiatsii. 66 p. (MIRA 13:9)
(Altai Mountains--Phytogeography)

KUMINOVA, A.V.; SOBOLEVSKAYA, K.A.

Plant kingdom of Siberia as a productive force and outlook
for its utilization. Izv. Sib. otd. AN SSSR no.10291-7) '68
(MIRA 17:38)

1. TSentral'nyy Sibirskiy botanicheskiy sad Sibirskogo otdel-
leniya AN SSSR, Novosibirsk.

KUMINOVA, A.V.

Basic patterns of the distribution of vegetation in the south-
eastern part of the West Siberian Plain. Trudy TSSBS no.6:7-34
'63. (MIRA 17:7)

KUMINOVA, A.V.; MITROFANOVA, M.P.

Dry meadows of the Ob'Valley. Trudy TSSES no.6:285-305 '63.
(MIRA 17:7)

POPOVA, T.G.; KUMINOVA, A.V.

Scientific Coordination Conference on the Studies of Vegetation of
Siberia and the Far East. Izv.SO AN SSSR no. 8. Ser. biol.-med.
nauk no.2:136-139 '63. (MIRA 16:11)

*

KUMINOVA, A. V.

"Structural peculiarities of Altai-Siberian fir-taiga (*Abies sibirica*)."

report submitted for 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

Central-Siberian Botanical Garden, Novosibirsk.

KUMINOVA, A.V.; VAGINA, T.V.; LAPSHINA, Ye.I.

Phytogeographical zoning of the southeast of the West Siberian
Plain. Trudy TSSBS no.6:35-62 '63. (MIRA 17:7)

KUMINOVA, A.V.

Formation of vegetation on drug dumps. Izv. SO AN SSSR no.12:
Ser. biol.-med. nauk no.3:91-95 '64. (MIRA 18:6)

1. Tsentral'nyy Sibirskiy botanicheskiy sad Sibirskogo otdeleniya
AN SSSR, Novosibirsk.

ACC NR: AR6024837

SOURCE CODE: UR/0169/66/000/004/G003/G004

AUTHOR: Bekzhanov, G. R.; Brodovoy, V. V.; Gol'dshmidt, V. I.; Zhivoderov, A. B.; Zlavdinov, L. Z.; Ivanov, O. D.; Klechin, I. N.; Kolmogorov, Yu. A.; Bachin, A. P.; Kotlyarov, V. M.; Kuz'min, Yu. I.; Kuminova, M. V.; Kunin, N. Ya.; Lyubetskiy, V. G.; Melent'yev, M. I.; Morozov, M. D.; Tret'yakov, V. G.; Tychkova, T. V.; Tsaregradskiy, V. A.; Eydlin, R. A.

TITLE: A schematic geophysical map of Kazakhstan

SOURCE: Ref. zh. Geofizika, Abs. 4G17

REF SOURCE: Sb. Geol. rezul'taty prikl. geofiz. Geofiz. issled. stroyeniya zemn. kory. M., Nedra, 1965, 142-154

TOPIC TAGS: geologic survey, geologic prospecting, map

ABSTRACT: Regional geophysical surveys are conducted in Kazakhstan to divide the territory into tectonic regions, to study its plutonic structure, and to solve some problems of geophysical mapping. The results of these surveys will make it possible to establish structural belts and regions in which minerals are likely to be found. The basic material will be obtained from investigations of the magnetic and gravitational fields in combination with seismic studies. In the magnetic and gravitational fields, tectonic and plutonic seams are isolated which correspond to terraces in the

Card 1/2

UDC: 550.311(574)

ACC NR: AR6024837

Mohorovicic discontinuity. Methods of regional geophysics are used to study the plutonic structure of a folded base, the structure and thickness of sedimentary sheaths, and to indicate prospective petroleum bearing uplifts. [Translation of abstract]
M. Speranskiy

SUB CODE: 08

Card 2/2

ACC NR: AT6028379	SOURCE CODE: UR/0000/65/000/000/0142/0154 /5
<p>AUTHOR: <u>Bachin, A. P.; Bekzhanov, G. R.; Brodovoy, V. V.; Gol'dshmidt, V. I.; Zhivoderov, A. B.; Zlavdinov, L. Z.; Ivanov, O. D.; Klenshin, I. N.; Kolmogorov, Yu. A.; Kotlyarov, V. M.; Kuz'min, Yu. I.; Kuminova, M. V.; Kunin, N. Ya.; Lyubetskii, V. G.; Melent'yev, M. I.; Moregov, H. D.; Tret'yakov, V. G.; Tychkova, T. V.; Tsaregradskiy, V. A.; Eydlin, R. A.</u></p>	
ORG: none	
TITLE: Geophysical sketch map of Kazakhstan	
<p>SOURCE: International Geological Congress. 22d, New Delhi, 1964, <i>Geologicheskkiye rezul'taty prikladnoy geofiziki</i> (Geological results of applied geophysics); doklady sovetskikh geologov, problema 2. Moscow, Izd-vo Nedra, 1965, 142-154</p>	
<p>TOPIC TAGS: Kazakhstan geophysical map, geophysical mapping, tectonics, regional study</p>	
<p>ABSTRACT: On the basis of regional geophysical and geological investigations (seismic, gravimetric, magnetoelectric), a composite geophysical sketch map of the physical fields of Kazakhstan has been compiled. From this map, the major tectonic zones, deep structures, and geological structural zones are defined. Long zones representing high field gradients in the gravitational and magnetic fields reflect deep geosutures, which seismic sounding data suggest are scarps in the M-discontinuity.</p>	
Card 1/2	

L 40131-50

ACC NR: AT6028379

Among the major structural zones of Kazakhstan defined are: 1) the Turgayskaya, 2) the Petropavlovskaya, 3) the Uspenskaya, 4) the Tokrauskaya, and 5) the Dzhala-Naymanskaya. Regions of magmatism are also defined. In the tectonic depression zones, contour lines indicate the thickness of the sedimentary cover, overlying the folded basement, and possible oil-bearing formations. Orig. art. has: 1 figure. [DM]

SUB CODE: 08/ SUBM DATE: 06Jan65/ ATD PRESS: 506.3

Curd 2/2/1965

SHCHERBA, G.N.; KOLMIGOROV, Yu.A.; KUMINOVA, M.V.; MIROSHNICHENKO, L.A.

Subsurface mobile zones in central Kazakhstan. Izv. AN Kazakh.
SSR.Ser.geol. no.1:8-22 '62. (MIRA 15:5)
(Kazakhstan--Geology, Structural)

BULYCHEV, N.A.; KUMINSKIY, N.D.; DUDNIKOV, V.V.; KISELEV, N.A.

Large patterns of frame structures. Lit. proizv. no.1:4-8
Ja '63. (MIRA 1613)

(Patternmaking)

Kumirova, T.

KALASHNIKOVA, Z., inzh.; KUMIROVA, T., inzh.

Improved feed mechanism for purifiers. Makh.-elev. prom. 24 no.4:
14 Ap '58. (MIRA 11:5)

1. Gor'kovskiy mashinostroitel'nyy zavod im. Vorob'yeva.
(Grain handling machinery)

AKIMUSHKIN, Igor' Ivanovich; KUMKES, S., red.

[Tracks of unseen animals] Sledy nevidannykh zverei.
Moskva, Myal', 1964. 262 p. (MIRA 18:1)

KHVAT, Lev Borisovich; KUMKES, S.N., red.; KOSHELEVA, S.M.,
tekhn. red.

[Coming from afar] Prishedshie izdaleka. Moskva, Geog-
rafgiz, 1963. 188 p. (MIRA 17:1)
(Antarctic regions)

FEDYNSKIY, V.V., doktor fiz.-matem. nauk, prof., otv. red.; BALLAKH, I.Ya., red.; PIOTROVSKIY, V.V., kand. geogr. nauk, red.; TARANOV, N.I., red.; CHIZHEVSKIY, A.L., prof., red.; KUMKES, S.N., red.; CHERNYKH, M.P., mlad. red.

[Earth in the universe] Zemlia vo vselennoi. Moskva, Izd-vo "Mysl'," 1964. 490 p. (MIRA 17:10)

ZHIROV, Nikolay Feodos'yevich; FANOV, D.G., doktor geogr. nauk,
prof., nauchn. red.; KUMKES, S.N., red.

[Atlantis; main problems of studies on Atlantis] Atlantida;
osnovnye problemy atlantologii. Moskva, Mysl', 1964. 430 p.
(MIRA 17:9)

MAGIDOVICH, Iosif Petrovich; KUMKES, S.N., red.; CHERNYKH, M.P.,
mladshiy red.; KISELVA, Z.A., red. kart; VILENSKAYA, E.N.,
tekh. red.

[The history of the discovery and exploration of North America]
Istoriia otkrytiia i issledovaniia Severnoi Ameriki. Moskva,
Gos. izd-vo geogr. lit-ry, 1962. 475 p. (MIRA 15:3)
(North America--Discovery and exploration)

TRESHNIKOV, Aleksey Fedorovich; KUMKES, S.N., red.; CHERNYKH, M.P.,
mladshiy red.; KISELEVA, Z.A., red. kart; KOSHELEVA, S.M.,
tekhn. red.

[History of the discovery and exploration of Antarctica] Isto-
riia otkrytiia i issledovaniia Antarktidy. Moskva, Geografiz,
1963. 430 p. (MIRA 16:5)

(Antarctic regions)

KUMKOV, I.M., podpolkovnik.

A navigation calculator NR-1. Vest. Vozd. Fl. 41 no.12;52-57

D '58.

(MIRA 11:12)

(Navigation (Aeronautics))

(A) L 11058-66 EPA/EWP(f)/T-2/ETC(m) WH

ACC NR: AP6002956 SOURCE CODE: UR/0286/65/000/024/0126/0126

INVENTOR: Kovalevskiy, M. M.; Gorshkov, V. N.; Zatkovetskiy, G. N.; Kumkov, P. A.;
Shul'man, V. L.; Bantikov, Yu. S.; Svyatskiy, Z. M.

ORG: none

TITLE: Mixer and exhaust duct for a gas-turbine combustion chamber. Class 46,
No. 177231

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 126

TOPIC TAGS: gas turbine engine, gas turbine, combustion chamber, turbine cooling

ABSTRACT: The proposed mixing chamber and exhaust duct is equipped with an external screen forming an annular clearance for feeding cooling air (see Fig. 1). The air then enters the mixing chamber through openings in its walls. To ensure a more uniform cooling of all combustion chamber components, the clearance is divided by a

Card 1/2 UDC: 621.438.056-712.8

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ACC NR: AP6002956

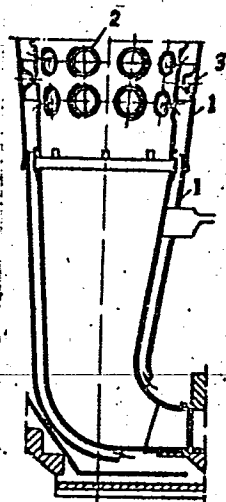


Fig. 1. Mixer and exhaust duct

1 - External screen; 2 - mixer openings; 3 - baffle.

baffle which permits part of the cooling air to enter the chamber directly and the rest in a counter-flow. Orig. art. has: 1 figure. [TN]

SUB CODE: 21/ SUBM DATE: 28Oct63/ ATD PRESS: 4170

Card 2/2

KUMKOVA, Ye.P., kand.med.nauk; SELIVANOVA, K.F. (Simferopol')

Intracutaneous and subcutaneous novocaine block in treating a pain syndrome. Vrach. delo no.3:133-134 Mr '64. (MIRA 17:4)

1. Kafedra gosptal'noy terapii pediatricheskogo fakul'teta
(zav. i docent V.P.Pomerantsev) Krymskogo meditsinskogo instituta.

Kumkova, Ye. P. -- "On Certain Peculiarities of the Course and Treatment of
Bronchial Asthma." First Moscow Order of Lenin Medical Inst, Moscow, 1955
(Dissertation for Degree of Doctor of Medical Sciences.)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

YESDANYAN, B.A.; MANVELYAN, K.R.; KUMKUMALZHAYAN, V.A.

Morphological and histochemical data on Ehrlich's carcinoma following its treatment with some preparations. Izv. AN Arm. SSR. Biol. nauki 18 no.5:44-51 My '65. (MIRA 18:7)

1. Institut rentgenologii i onkologii ANI SSSR.

LEJSAL, Alois, inz.; KUML, Karel, inz.

Noncontact railroad track and concentrated renovation. Zel
dop tech 12 no.8:203-204 '64.

MAKEYEVA, Ye.D.; KUMLEVA, L.A.; Z/SLAVSKIY, Yu.S.; SHCHIPINA, N.Ye.

Effect of radioactive irradiation on the change of the properties
of the dispersion media of plastic lubricants. Khim. i tekhn.
topl. i masel 9 no.9:38-40 S '64. (MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gazov i polucheniye iskusstvennogo zhidkogo topliva.

KUMMER, B.

Development and form variation of long bones as related to mechanical action. Arkh. anat., gist. i embr. 49 no.7:21-29 JI '65.

(MIRA 18:10)

1. Anatomicheskiy institut Kel'nskogo universiteta.

KUMMER, Ferenc, dr., okleveles bányamérnök, a muszáki tudományok
kandidátusa

Experimental longwall working with HKV-1000 walking support
in the No. XVII Colliery at Oroszlány. Bány lap 97 no.4:
258-268 Ap '64.

1. Mining Research Institute, Budapest.

KUMMER, Ferents [Kummer, Ferenc], dr., gornyy inzhener, kandidat tekhn. nauk

Newer achievements obtained by means of the HKV-1000 type mechanized walking face supports. Izvestiia Bani KI no.5:49-56 '61.

KUMMER, Ferenc, okl. banyamernok, tudományos kutató

Results obtained by the use of the mechanical walking face supports
of the type-HKV. Bany lap 95 no.1:16-21 Ja '62.

1. Banyaszati Kutató Intézet, Budapest.

KUMMER, Istvan

Problems of young technicians in the field of track maintenance service. Vasut 12 no.9:22 29 S '62.

KUMMER, P.I.

Exemplary centralization of dispatching. Avtom., telem. i sviaz'
2 no.2:19-24 P '58. (MIRA 11:1)

1. Zamestitel' nachal'nika normativno-issledovatel'skoy stantsii
Mintransstroya.

(Railroads--Train dispatching)

KUMMER, P.I.; SMIRNOV, L.G., inzh.; TALASHCHENKO, I.P., inzh.

Constructing overhead lines on reinforced concrete supports. Avtom.,
telem. i sviaz' 2 no.10:17-19 0 '58. (MIRA 11:10)

1.Zamestitel' nachal'nika Normativno-issledovatel'skoy stantsii
Mintransstroya (for Kummer)
(Electric lines--Poles)

KUMMER, P.I.; STAZHADZE, V.A., inzh.

Installation of signal towers for automatic block systems.
Avtom. telem. i sviaz' 3 no.5:26-30 My '59.

(MIRA 12:8)

1. Zamestitel' nauchal'nika normativno-issledovatel'skoy stantsii
Mintransstroya (for Kummer).
(Railroads--Signaling--Block systems)

KUMMER, P.I., inzh.; ZENOVKIN, N.P., inzh.

Making of cable trenches with a plow-type trench digger.

Avtom., telem. i sviaz' 6 no.6:33 Je '62. (MIRA 15:7)

(Railroads—Signaling)

(Electric lines—Underground)

GORCS, Jenő,; LASZLO, Lajos,; SEGES, Gábor,; KUMMERLANDER, Lajos.

Prophylaxis of uterine cervix cancer; accomplishments of our
precancerous ambulatory service. Magy. noorv. lap. 19 no.2:83-92
Mar 56

1. Pécsi Orvostudományi Egyetem Szülészeti és Nőgyógyászati
Klinikájának Közleménye. (Igazgató: Lajos László dr. egyetemi tanár)
(CERVIX, UTERINE, neoplasms
prev. by screening in Hungary, results (Hun))

KUMMERLANDER, LAJOS

MELCZER, Miklos; KISS, Gyula; GORCS, Jeno; KUMMERLANDER, Lajos

Significance of electrometry in detection of cancer and precancerous states of uterine cervix. Orv. hetil. 98 no.22: 583 2 June 57.

1. A Pecsí Orvostudományi Egyetem Bor- és Nemibeteg Klinikájának (igazgató: Melczer, Miklos, dr. egyet. tanár) és a Szülészeti és Nőgyógyászati Klinikájának (igazgató: Lajos, Laslo, dr. egyet. tanár).

(CERVIX NEOPLASMS, diag.

electrometry in detection of cancer & precancerous states (Hun))

(ELECTRODIAGNOSIS, in various dis.

cancer & precancerous states of uterine cervix, electrometry (Hun))

PECELI, Endre, dr.; KUMMERLANDER, Lajos, dr.

Case of monolateral absence of adnexus diagnosed by pelveophlebography.
Magy noorv. lap. 25 no.1:29-32 Ja '62.

1. A Baranyamegyei Tanacs Korhaza (Igazgato: Steinmetz Endre dr.)
Szuleszeti es Nagygyaszati Osztalyanak (Foorvos: Pali Kalman dr.)
kozlemenye.

(ADENXA UTERI abnorm) (ANGIOGRAPHY)
(PELVIS radiography)

LAVROV, V.N., kandidat tekhnicheskikh nauk; KUMMERMAN, V.G., goray inzhener.

Surveying compass for mine orientation. Gor.zhur.no.3:51-54 Mr
'56. (Mine surveying) (Gyrocompass) (MLRA 9:7)

KUMMERMAN, V.G., inzh.; ZHITOMIRSKIY, I.B., inzh.; VYAZNIKOVTSHEV, O.I., inzh.

Gyroscopic orientation of Donets Basin mines. Ugol' 33 no.2:34-35
F '58. (MIRA 11:2)

1. Yuzhno-Ural'skoye otdeleniye Soyuzmarkshtresta.
(Mine surveying) (Gyroscope)

KUM.OV, I.

Mechanizing the fight against the diseases and pests in the Balkan and Sub-Balkan Mountain regions.

P. 12, (Mashinizirano Zemedelie) Vol. 8, no 4, Apr. 1957, Sofia, Bulgaria

SO: MOnthly Index of East European Acessions (EEAI) Vol. 6, 11 November 1957

CZECH/34-59-6-7/23


AUTHORS: Kumnikl, František, Ing. and Strobl, Rudolf, Ing.

TITLE: Quality of Rimming Steels Produced in an Oxygen Blast Operated Converter from Pigiron with a High P content (Jakost neuklidněné oceli vyrobené v kyslíkovém konvertoru ze surového železa s vyšším obsahem fosforu)

PERIODICAL: Hutnické Listy, 1959, Nr 6, pp 493-499 (Czechoslovakia)

ABSTRACT: Numerous authors (Refs 2-7) have proved that steel manufactured in converters with pure oxygen blasts (LD method) are equal in quality to steel produced in open-hearth furnaces. The comparisons of all these authors were based predominantly on LD steel produced from open-hearth furnace pig-iron with low P and S contents, averaging about 0.12% P and 0.045% S. In order to find out to what extent the steel quality can be affected by using less favourable raw materials, the authors of this paper carried out a series of experiments. In these the mechanical, technological and metallographic properties were compared of low carbon rimming steels produced in a basic converter, in a basic open-hearth furnace and in a basic oxygen blast operated converter

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CZECH/34-59-6-7/23

Quality of Rimming Steels Produced in an Oxygen Blast Operated
Converter from Pig-Iron with a High P content

using a pig-iron with P contents of up to 0.80%. Although positive results were obtained, the authors emphasize that these were obtained from a small number of heats and, therefore, do not solve conclusively the problem of the quality of steel produced in oxygen blast operated converters from pig-iron of poorer quality. The experiments encompass three heats in 15 ton capacity basic converters (T1, T2, T3), three heats in basic 3 ton open-hearth furnaces (M1, M2, M3) and six heats (K1-K6) of steel produced with an oxygen blast 5 ton capacity converter. The chemical composition of the six grades of pig-iron used in the oxygen blast operated converters are entered in Table 1. The compositions of the steels of all the melts on which the comparative mechanical and technological tests were made are entered in Table 2, p 495. In Table 3 the nitrogen content of the test specimens is given. Table 4a gives the measured values of the yield point, strength, ductility and contraction. Table 4b gives data on the appearance of the fractures in impact strength tests. The impact strength values are entered in Table 5.

Card 2/5

OZECH/34-59-6-7/23

Quality of Rimming Steels Produced in an Oxygen Blast Operated Converter from Pig-Iron with a High P content

Table 6 gives data on the austenitic grain size. Table 7 contains data of the micro-chemical analysis of the non-metallic admixtures. The data listed in the tables is also presented in the form of graphs. The comparative tests carried out with mild rimming steels produced in a basic open-hearth furnace, a basic converter and an oxygen blast operated converter led to the following conclusions:

1) The strength properties of oxygen blast and open-hearth steels differ. On the average the strength and yield point of the oxygen blast steel are about 4 kg/mm² lower, the contraction is about 7% higher and the ductility is about the same as for open-hearth steel. The basic converter steel had lower values of contraction and ductility and higher strength and yield point values.

2) The impact strength of oxygen blast and of open-hearth steels are similar in the natural state as well as after artificial ageing. In some cases the oxygen

Card 3/5



CZECH/34-59-6-7/23

AUTHORS: Kumníkl, František, Ing. and Strobil, Rudolf, Ing.

TITLE: Quality of Rimming Steels Produced in an Oxygen Blast Operated Converter from Pig-iron with a High P content (Jakost neuklidněné oceli vyrobené v kyslíkovém konvertoru ze surového železa s vyšším obsahem fosforu)

PERIODICAL: Hutnické Listy, 1959, Nr 6, pp 493-499 (Czechoslovakia)

ABSTRACT: Numerous authors (Refs 2-7) have proved that steel manufactured in converters with pure oxygen blasts (LD method) are equal in quality to steel produced in open-hearth furnaces. The comparisons of all these authors were based predominantly on LD steel produced from open-hearth furnace pig-iron with low P and S contents, averaging about 0.12% P and 0.045% S. In order to find out to what extent the steel quality can be affected by using less favourable raw materials, the authors of this paper carried out a series of experiments. In these the mechanical, technological and metallographic properties were compared of low carbon rimming steels produced in a basic converter, in a basic open-hearth furnace and in a basic oxygen blast operated converter

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CZECH/34-59-6-7/23

Quality of Rimming Steels Produced in an Oxygen Blast Operated
Converter from Pig-Iron with a High P content

is equivalent to open-hearth steel.

There are 5 figures, 7 tables and 7 references,
1 of which is Czech, 1 French, 2 English, 3 Soviet.

ASSOCIATION: Výzkumný ústav hutnictví železa, Praha
(Ferrous Metallurgy Research Institute, Prague)

SUBMITTED: December 29, 1958

✓

Card 5/5

KUMNIKL, Hynek

Change of the rotary table feeder construction in the agglomeration department of Klement Gottwald New Metallurgical Plant in Czechoslovakia. Wiad hut 17 no.11:330-332 N '61

1. Nowa Hut' Klementa Gottwalda, (Czechoslovakia)

GERTSRIKEN, S.D.; DEKHTYAR, I.Ya.; KUMOK, L.M.

Study of the diffusion of chromium in ternary alloys: iron--chromium--carbon. Dep. AN URSS no.2:48-52 '49. (MLRA 9:9)

1. Laboratoriya metalofiziki AN URSS. Predstaviv diyaniy chlen
AN URSS G.V. Kurdyumov.
(Iron--Chromium alloys)

KUMOK, L.

PA 51/49T43

USSR/Metals

Jul 49

Zinc

Brass

"Study of the Diffusion of Zinc in Alpha-Brass in the Temperature Interval 400 - 750° C," S. Gertsriken, I. Dekhtyar, L. Kumok, Lab of Metallophys, Acad Sci Ukrainian SSR, Kiev, 4 pp

"Zhur Tekh Fiz" Vol XIX, No 7

Showed that a discontinuity appears at about 450° C in the curve of temperature versus coefficient of diffusion of zinc in alpha-brass. Determined constants of diffusion, i.e., activation energy and activation entropy for both loops of this curve. Effect is due to local internal distortions in the alloy lattice. Submitted 19 Jul 48.

PA 51/49T43

GERTSRIKEN, S.D., doktor fiz.-mat. nauk; DEKHTYAR, I.Ya., kandidat
fiz.-mat. nauk; KUMOK, L.M.

Study of manganese diffusion based on admixtures in the ternary
alloy: nickel-manganese-third element. Sbor. nauch. rab. Lab.
metallofiz. no. 5:71-77 '54. (MLRA 8:9)
(Nickel-manganese alloys)

KUMOK, L.M.

SOV/137-58-8-17587

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 197 (USSR)

AUTHORS: Gertsriken, S.D., Dekhtyar, I.Ya., Kumok, L.M.,
Madatova, E.G.

TITLE: Determination of the Diffusion Parameters in a Mixture of Two
Phases (Opredeleniye parametrov diffuzii v smesi dvukh faz)

PERIODICAL: Sb. nauchn. rabot In-ta metallofiz. AN UkrSSR, 1957, Nr 8,
pp 105-108

ABSTRACT: The relationship between the effective coefficients of diffusion in an alloy D_{ef} and the coefficients in each separate phase D_a and D_b is examined, also the relationship between the analogous effective energies of the activation of diffusion E_{ef} , E_a , and E_b . The calculation is conducted on the basis of a method in which the utilization of radioactive isotopes affords a determination of D from the diffusion currents. As a result the following formulae are obtained: $D_{ef} = D_a^{c_a} D_b^{c_b}$ and $E_{ef} = c_a E_a + c_b E_b$, where c_a and c_b are the concentrations of the phases in the alloy. The formulae obtained are verified on the example of known data on self-diffusion of Zn (RZhKhim,

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SOV/137-58-8-17587

Determination of the Diffusion Parameters in a Mixture of Two Phases

Nr 1, abstract 188) parallel and perpendicularly to the c axis by the application to the case of diffusion in polycrystalline Zn, in which the presence of fine crystals of the different phases "phase 1" and "phase 2" is assumed. A good concurrence with experimental data is obtained.

I. D.

1. Alloys--Diffusion
2. Alloys--Phase studies
3. Mathematics

Card 2/2

SOV/137-59-4-8372

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 4, p 148 (USSR)

AUTHORS: Gertsriken, S.D., Dekhtyar, I.Ya., Kumok, L.M., Madatova, E.O.

TITLE: Investigation Into Cobalt Diffusion¹⁶ in Multi-Component Alloys of the Ferrite and Ferrite-Austenite Type ¹⁷

PERIODICAL: V sb.: Metallurgiya i metallovedeniye, Moscow, AS USSR, 1958, pp 253-258

ABSTRACT: The authors investigated diffusion of Co^{60} in alloys containing in %: Cr 15-18, Ni 17-18, Mo 0-2, Al 5-8, Fe 54-61, Nb 0-1, Zr 0-1, B 0-2. Alloys with a two-phase structure of the ferrite austenite type, were annealed at 900 - 1,200°C; single-phase ferrite type alloys were annealed within the 800 - 1,000°C temperature range with intervals of 50°. Diffusion coefficient D was determined by the absorption method. From $\lg D - 1/T$ graphs, described by a straight line, values of the activation energy E and of the pre-exponential multiplier D_0 were calculated for all the alloys. The authors analyzed the relation between the effective diffusion coefficient D_{ef} in the alloy and diffusion coefficients D_α and D_β of each individual phase; they also investigated the relation of the effective energy of diffusion activation E_{ef} and the energies of diffusion activation

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SOV/137-59-4-8372

Investigation Into Cobalt Diffusion in Multi-Component Alloys of the Ferrite and Ferrite-Austenite Type

in each phase E_{α} and E_{β} . Theoretical and experimental data were in a satisfactory agreement. It is shown that inspite of the difference in the parameters of diffusion in individual phases, D_{ef} in a two-phase mixture obeys, under certain conditions, the conventional formula $D = D_0 \exp (- E/RT)$. The diffusion rate in ferrite alloys is considerably higher than in a two-phase mixture.

I.L.



Card 2/2

Abdullayev, A.M. and R.S. Rakhmatov. Some problems of the theory of heat-resistant alloys. Moscow, 1960. 319 p. Russian ally inserted. 3,000 copies printed.

Sponsoring Agency: Abdullayev, A.M. and R.S. Rakhmatov. Some problems of the theory of heat-resistant alloys. Moscow, 1960. 319 p. Russian ally inserted.

Editorial Board: I. P. Bardin (President), G. V. Kostomarov, E. V. Agapov, Corresponding Member, Academy of Sciences (Moscow, U.S.S.R.), A. A. Kabanov, Corresponding Member, Academy of Sciences (Moscow, U.S.S.R.), and V. P. Kabanov, Corresponding Member, Academy of Sciences (Moscow, U.S.S.R.).

Purpose: This book is intended for research workers in the field of physics of metals and for metallurgists, particularly those working on heat-resistant alloys.

Contents: This collection of 19 articles deals with various problems in the production of heat-resistant alloys. Special attention is paid to the mechanisms of deformation of such metals as aluminum, copper, iron, and nickel. Various defects and failures of metals are analyzed, and means for increasing the heat resistance and plasticity are described. Among the special problems discussed are: electrolytic conductivity of iron-aluminum alloys in the solid state; the mobility of atoms in iron-aluminum alloys, depending upon defects of their crystalline structure; the kinetics of change in isolated pores; the irreversible thermal transformation of solid bodies, etc. So personalities are mentioned. References follow each article.

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